



CIVIL-TECH CONSULTANTS & ENGINEERS

Building & Highway Material Testing Laboratory
NABL - Accredited Laboratory as per ISO / IEC - 17025 : 2005

Job No.: CTCE/BBMP/W.No.11/SSI/CEMENT/2013-14



Date: 22.03.2014

TEST REPORT

CLIENT	:	Asst. Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
AGENCY	:	Mr. S.S Infra (Mohanrao.B), Contractor, Bangalore.
NAME OF THE WORK	:	Construction of SSM Retaining Wall and BS Slab Drain at Naidu Layout Gudda Side in Ward No.11 Kuvempunagara, Vidyaranyapura Sub Division, BBMP, Bangalore.
REFERENCE	:	AEE/VSD/PR/458/1/2013-14 Dated: 19.03.2014
SAMPLE ID	:	CEMENT
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	175 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	485 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	26.50 %	-

Note:

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22/3/14
AE-11

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Job No.: CTCE/BBMP/W.No.11/SSI/SAND/2013-14



: 22.03.2014

TEST REPORT ON FINE AGGREGATES (SAND) IS 383-1970 (RA- 2002)

Client : Asst. Executive Engineer, Vidyanarayapura Sub Division, BBMP, Bangalore.
Agency : Mr. S.S Infra (Mohanrao.B), Contractor, Bangalore.
Name of Work : Construction of SSM Retaining Wall and BS Slab Drain at Naidu Layout Gudda Side in Ward No.11 Kuvempunagara, Vidyanarayapura Sub Division, BBMP, Bangalore.
Reference : AEE/VSD/PR/458/1/2013-14 Dated: 19.03.2014
Date of Testing : 22.03.2014
Material : Sand

Total Wt. of Aggregates 2000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	96	4.8	4.8	95.2	90-100
2.36	214	10.7	15.5	84.5	75-100
1.18	325	16.3	31.8	68.3	55-90
600 Micron	585	29.3	61.0	39.0	35-59
300 Micron	413	20.7	81.7	18.4	8-30
150 Micron	245	12.3	93.9	6.1	0-10

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: 22.03.2014

TEST REPORT ON COARSE AGGREGATES IS 383-1970 (RA- 2002)

Client : Asst. Executive Engineer, Vidyananyapura Sub Division, BBMP, Bangalore.
Agency : Mr. S.S Infra (Mohanrao.B), Contractor, Bangalore.
Name of Work : Construction of SSM Retaining Wall and BS Slab Drain at Naidu Layout Gudda Side in Ward No.11 Kuvempunagara, Vidyananyapura Sub Division, BBMP, Bangalore.
Reference : AEE/VSD/PR/458/1/2013-14 Dated: 19.03.2014
Date of Testing : 22.03.2014
Material : 40mm Aggregates

Total Wt. of Aggregates in gms 25300

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0.0	100	100
40	1010	4.0	4.0	96.01	95-100
20	16248	64.2	68.2	31.79	30-70
10	5245	20.7	88.9	11.06	10-35
4.75	2130	8.4	97.4	2.64	0-5

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Job No.: CTCE/BBMP/W.No.11/SSI /STEEL/2013-14

22.03.2014

TEST REPORT ON REINFORCEMENT STEEL

Client : Asst. Executive Engineer, Vidyanarayapura Sub Division, BBMP, Bangalore.

Agency : Mr. S.S Infra (Mohanrao.B), Contractor, Bangalore.

Name of the Work : Construction of SSM Retaining Wall and BS Slab Drain at Naidu Layout Gudda Side in Ward No.11 Kuvempunagara, Vidyanarayapura Sub Division, BBMP, Bangalore.

Reference : AEE/VSD/PR/458/1/2013-14 Dated: 19.03.2014

Date of Test : 22.03.2014

Technical Reference : IS: 1786-2008



Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm ²	Tensile strength (Ultimate stress) N/mm ²	Elongation percent gauge length		
1	10	0.63	514	548	12.95	O.K	O.K

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Job No.: CTCE/BBMP/W.No.11/SSI/CUBE/2013-14



26.04.2014

TEST REPORT ON CONCRETE CUBES

Client : Asst. Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : Mr. S.S Infra (Mohanrao.B), Contractor, Bangalore.

Name of the work : Construction of SSM Retaining Wall and BS Slab Drain at Naidu Layout Gudda Side in Ward No.11 Kuvempunagara, Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : AEE/VSD/PR/458/1/2013-14 Dated: 19.03.2014

Sample ID : Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₀

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	29.03.2014	26.04.2014	8.145	483.5	21.49
2	29.03.2014	26.04.2014	8.258	498.6	22.16
3	29.03.2014	26.04.2014	8.398	511.3	22.72

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